Pursuant to the authority vested in the Air Resources Board by Health and Safety Code Division 26, Part 5, Chapter 2; and pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: The engine and emission control systems produced by the manufacturer are certified as described below for use in on-road motor vehicles with a manufacturer's GVWR over 14,000 pounds. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY AFMXE06.8BWX		ENGINE SIZES (L)	FUEL TYPE 1	STANDARDS & TEST PROCEDURE	INTENDED SERVICE CLASS ²	ECS & SPECIAL FEATURES 3	DIAGNOSTIC * OBD (F)				
2010			6.8	Gasoline	Otto	HDO	TWC, SFI, 2HO2S					
	ENGINE'S IDLE NS CONTROL			AI	DDITIONAL IDLE EN	IISSIONS CONT	rol ⁵					
N/A			N/A									
ENGINE (L)	***************************************		ENGINE MO	DELS / CODES (re	ted power, in h	p)					
6.8	E450 Incomplete / AE418N0505, AE418N0506, AE418N0507, AE418M0505, AE418M0506, AE418M0507 (305 for all codes)											
•					*							
L=liter, hp:	=horsepower; kw=ki	lowatt; hr	r=hour,	•			86.abc=Title 40, Code of Federal Regulation of fuel; DF≃dual fuel; FF=flexible fuel;	ons, Section 86.abc;				
2 L/M/H F	IDD=light/medium/h	evy heav	y-duty diesel; UB=ur	ban bus; HDO=heavy duty (Otto;							
up catalyst; TBI=throttle super charg control mod 5 ESS=er	DPF=diesel particue body fuel injection, ger; CAC=charge air ule; EM=engine moonine shutdown systi	late filter; SFI/MFI= cooler; Edification; am (ner 13	PTOX=periodic trap sequential/multi port SGR / EGR-C=exhaus 2 (prefix)=parallel; 3 CCR 1956 8(a)(6)(A	oxidizer; HO2S/O2S=heated fuel injection; DGI=direct gas st gas recirculation / cooled E (2) (suffix)=in series; V1): 30c=30 c/hr NOx (per 1	t/oxygen sensor; HAF soline injection; GCAF :GR; PAIR/AIR=pulse 13.CCR 1956.8/a)(6)(0	S/AFS=heated/air tB=gaseous carbu d/secondary air inj c): APS ≃internal	ve catalytic reduction – urea / - ammonia; -fuel-ratio sensor (a k.a., universal or linea uretor, IDUDDI=indirect/direct diesel injection; jection; SPL=smoke puff limiter, ECM/PC combustion auxiliery power system; ALT=	r oxygen sensor); on; TC/SC=turbo/ M=engine/powertrain				
(per 13 CC	Ř 1956.8(a)(6)(D); B	xempt=e	xempted per 13 CCR	1956.8(a)(6)(B) or for CNG/I 71); OBD(F) / (P) / (\$)=full / (LNG fuel systems; N/A	t=not applicable (r	e.g., Otto engines and vehicles);	(2009August06)				

Following are: 1) the FTP exhaust emission standards, or family emission limit(s) as applicable, under 13 CCR 1956.8; 2) the EURO and NTE limits under the applicable California exhaust emission standards and test procedures for heavy-duty diesel engines and vehicles (Test Procedures); and 3) the corresponding certification levels, for this engine family. "Diesel" CO, EURO and NTE certification compliance may have been demonstrated by the manufacturer as provided under the applicable Test Procedures in lieu of testing. (For flexible- and dual-fueled engines, the CERT values in brackets [] are those when tested on conventional test fuel. For multi-fueled engines, the STD and CERT values for default operation permitted in 13 CCR 1956.8 are in parentheses.).

in g/bhp-hr	NMHC		NOx		NMHC+NOx		СО		PM		нсно	
	FTP	EURO	FTP	EURO	FTP	EURÓ	FTP	EURO	FTP	EURO	FTP	EURO
STD	0.14	*	0.20	•	*	*	14.4	,	0.01	*	0.01	*
FEL	•	. •	*	٠	*	*	•	•	٠	•	•	•
CERT	0.12	*	0.05	•	٠	*	7.9	•	*	*	0.001	•
NTE	•		*		•		*		•		•	

g/bhp-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure; EURO=Euro III European Steady-State Cycle, including RMCSET=ram mode cycle supplemental emissions testing; NTE=Not-to-Exceed; STD=standard or emission test cap; FEL=family emission limit; CERT=certification level; NMHC/HC=non-methane/hydrocarbon; NOx=oxides of nitrogen; CO=carbon monoxide; PM=particulate matter; HCHO=formaldehyde; (Rev.: 2007-02-26)

BE IT FURTHER RESOLVED: Certification to the FEL(s) listed above, as applicable, is subject to the following terms, limitations and conditions. The FEL(s) is the emission level declared by the manufacturer and serves in lieu of an emission standard for certification purposes in any averaging, banking, or trading (ABT) programs. It will be used for determining compliance of any engine in this family and compliance with such ABT programs.

BE IT FURTHER RESOLVED: For the listed engine models the manufacturer has submitted the materials to demonstrate certification compliance with 13 CCR 1965 (emission control labels), 13 CCR 1971.1 (on-board diagnostic, full or partial compliance), and 13 CCR 2035 et seq. (emission control warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this Executive Order.

Executed at El Monte, California on this

1

day of August 2009.

Annette Hebert, Chief
Mobile Source Operations Division